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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/902,890	07/12/2001	Leigh Allen Williamson	AUS920010326US1	1623	
7590 07/14/2004			EXAM	EXAMINER	
Robert H. Frantz P.O. Box 23324			ZHEN, LI B		
Oklahoma City, OK 73123-2334			ART UNIT	PAPER NUMBER	
•	•		2126	4	
			DATE MAILED: 07/14/2004	DATE MAILED: 07/14/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
•	09/902,890	WILLIAMSON ET AL.				
Office Action Summary	Examiner	Art Unit				
	Li B. Zhen	2126				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tir ly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. C) (35 U.S.C. § 133).				
Status						
 1) Responsive to communication(s) filed on 12 J 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allower closed in accordance with the practice under the condition of t	s action is non-final. ince except for formal matters, pro					
Disposition of Claims						
4) ☐ Claim(s) 1-21 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-21 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) acc						
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct	•	, ,				
11) The oath or declaration is objected to by the E		•				
Priority under 35 U.S.C. § 119	-					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. Is have been received in Applicationity documents have been received u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
) Notice of References Cited (PTO-892)	4) Interview Summary					
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 3. 	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate atent Application (PTO-152)				

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DETAILED ACTION

1. Claims 1 - 21 are pending in the application.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Application Publication NO. 2002/0004850 to Sudarshan in view of U.S. Patent NO. 6,633,923 to Kukura.
- 4. As to claim 1, Sudarshan teaches the invention substantially including a method of providing an extension [messaging object for putting messages into and getting messages from the messaging service 26. This is referred to as a plug-in implementation or plug-in module; p. 5, paragraph (0047), p. 6, paragraph (0056)] to a default set of messaging resource functions [a messaging server 26; p. 3, paragraph (0033)] in an enterprise application server [EJB-enabled server 28, Fig. 5; p. 3, paragraph (0033)], the application server having a default context factory class, the method comprising the steps of:

providing a extension messaging service provider [plug in module using JMS messaging calls and publish subscribe method for communication. This abstraction

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layer is written for each messaging server 26 supported by the messaging engine; p. 6; paragraph (0056)] on an application server node [EJB-enabled server 28, Fig. 5; p. 3, paragraph (0033)], the extension messaging service provider having a name, description [Messaging Descriptor, which is a generic object that contains details about the messaging server 26. Details like topic name, queue name, etc. could be stored into this object; p. 5, paragraph (0055)]; and

creating extension connection factory [topicConnectionFactory = new com.sun.messaging.TopicConnection Factory(jmsAddress, mesgDescriptor.getPortNumbe()); p. 6, code example after paragraph (0056)] and destination resources in an application server administration domain [deployment tool of the messaging engine facilitates the generation of asynchronous stubs of the bean's home and remote interfaces; p. 3, paragraph (0037)], such that application programs may subsequently access and use the extension messaging service provider, connection factory and destination resources by performing an indirect naming service lookup through the default context factory [client system 24 makes a lookup method call to the JNDI for a particular enterprise bean....Once the asynchronous stub reference is retrieved, the client system 24 can make method calls, which are converted to messages and transferred to the EJB-enabled server 28 using messaging calls; p. 7, paragraph (0066)].

5. Although Sudarshan teaches the invention substantially as claimed, Sudarshan does not teach binding references to extension connection factories and destination resources into a namespace.

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However, Kukura teaches providing an extension to a default set of messaging resource functions [ART architecture allows plug-ins to participate in the processing of requests by supplying interceptors that are included in bindings; col. 13, lines 10 – 20], the extension messaging service provider having an initial context factory [Each message interceptor factory's...implementation is called in order to determine if the plug-in will participate in the binding; col. 34, lines 45 – 67] and a provider universal resource locator [plug-in uses I.P. addresses to specify host addresses in published IOR TAG_INTERNET_TOP profiles; col. 41, lines 26 - 35], and binding references to the extension connection factories and destination resources into a namespace [ART core attempts to construct a binding as follows: First, it calls the get_interceptor() operation on the factory for the interceptor closest to the network; col. 10, lines 47 – 65].

- 6. It would have been obvious to a person of ordinarily skilled in the art at the time of the invention to apply the teaching of binding references to extension connection factories and destination resources into a namespace as taught by Kukura to the invention of Sudarshan because this establishes a negotiated protocol and services that allow the client to make invocations on the target object, and any shared state required by the protocol and services at the client and server [col. 5, lines 33 48 of Kukura].
- 7. As to claim 2, Sudarshan as modified teaches specifying a classpath on the application server node [location request is a query regarding the location of the target object; col. 16, lines 23 33 of Kukura].

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8. As to claim 3, Sudarshan as modified teaches specifying a location of the extension messaging service provider's jar file on the application server node [call includes the name of the enterprise bean in the lookup argument of the JNDI to get a reference of the home interface; p. 7, paragraph (0066) of Sudarshan].

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- 9. As to claim 4, Sudarshan as modified teaches the step of specifying a classpath on an application server node includes specifying a naming service binding mechanism class name [instance of the ART_BindingManagerImpl implementation of the ART_Binding::BindingManager interface is constructed for each ORB instance during RB initialization; col. 9, lines 43 49 of Kukura].
- 10. As to claim 5, Sudarshan as modified teaches the step of creating extension connection factory and destination resources in an application server administration domain [see claim 1] includes specifying a name, description [Messaging Descriptor, which is a generic object that contains details about the messaging server 26; p. 5, paragraph (0055) of Sudarshan], and an external naming service name [call includes the name of the enterprise bean in the lookup argument of the JNDI to get a reference of the home interface; p. 7, paragraph (0066) of Sudarshan].
- 11. As to claim 6, Sudarshan as modified teaches the step of specifying a name, description, and an external naming service name includes specifying a location where the extension connection factory [mechanisms for object adapter plug-ins to create new

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IORs, and for plug-ins providing location daemon functionality to manipulate IORs in order to return location forward responses; col. 43, lines 1 – 10 of Kukura] and destination resources were bound into the namespace [ART core attempts to construct a binding as follows: First, it calls the get_interceptor() operation on the factory for the interceptor closest to the network; col. 10, lines 47 – 65 of Kukura].

- 12. As to claim 7, Sudarshan as modified teaches the step of providing an extension messaging service provider comprises providing a Java Messaging Service provider [plug in module using JMS messaging calls and publish subscribe method for communication. This abstraction layer is written for each messaging server 26 supported by the messaging engine; p. 6, paragraph (0056) of Sudarshan].
- 13. As to claims 8 − 14, these are product claims that correspond to method claims 1
 −7; note the rejections to claims 1 − 7 above, which also meet these product claims.
- 14. As to claims 15 21, these are system claims that correspond to method claims
 1 7; note the rejections to claims 1 7 above, which also meet these system claims.

Conclusion

15. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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U.S. Patent Application Publication No. 2002/0004848 to Sudarshan et al.

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teaches a system and method of providing an asynchronous interface between a client

system and an enterprise JavaBeans-enabled server.

U.S. Patent Application Publication No. 2003/0005117 to Kang et al. teaches a

pluggable authentication and access control for a messaging system.

16. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Li B. Zhen whose telephone number is (703) 305-3406.

The examiner can normally be reached on Mon - Fri, 8:30am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Meng-Ai An can be reached on (703) 305-9678. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Li B. Zhen Examiner

Art Unit 2126

lbz

July 8, 2004

ST. JOHN COURTENAY !!!

PRIMARY EXAMINER